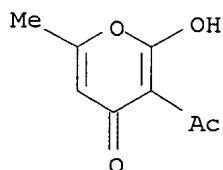


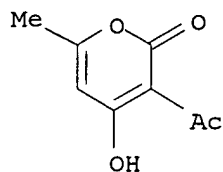
L1 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2003 ACS  
RN 16807-48-0 REGISTRY  
CN 4H-Pyran-4-one, 3-acetyl-2-hydroxy-6-methyl- (8CI, 9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN Dehydracetic acid  
CN **Dehydroacetic acid**  
CN DHAA  
FS 3D CONCORD  
MF C8 H8 O4  
LC STN Files: AGRICOLA, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA,  
CABA, CAPLUS, CASREACT, CHEMLIST, CIN, EMBASE, IFICDB, IFIUDB, PDLCOM\*,  
PIRA, PROMT, TOXCENTER  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

19 REFERENCES IN FILE CA (1962 TO DATE)  
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
19 REFERENCES IN FILE CAPLUS (1962 TO DATE)

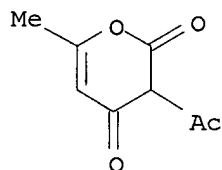
L1 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2003 ACS  
RN 771-03-9 REGISTRY  
CN 2H-Pyran-2-one, 3-acetyl-4-hydroxy-6-methyl- (8CI, 9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Sorbic acid, 2-acetyl-3,5-dihydroxy-, .delta.-lactone (6CI, 7CI)  
OTHER NAMES:  
CN 3-Acetyl-4-hydroxy-6-methyl-2-pyrone  
CN 3-Acetyl-4-hydroxy-6-methyl-2H-2-pyrone  
CN 3-Acetyl-4-hydroxy-6-methyl-2H-pyran-2-one  
CN 3-Acetyl-4-hydroxy-6-methylpyran-2-one  
✓ [ CN Dehydracetic acid  
CN **Dehydroacetic acid**  
CN DHAA  
FS 3D CONCORD  
MF C8 H8 O4  
CI COM  
LC STN Files: AGRICOLA, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA,  
CABA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN,  
EMBASE, IFICDB, IFIPAT, IFIUDB, PDLCOM\*, PIRA, PROMT, SPECINFO,  
TOXCENTER, USAN, USPATFULL  
(\*File contains numerically searchable property data)  
Other Sources: EINECS\*\*  
(\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

154 REFERENCES IN FILE CA (1962 TO DATE)  
 9 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 154 REFERENCES IN FILE CAPLUS (1962 TO DATE)  
 7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L1 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2003 ACS  
 RN 520-45-6 REGISTRY  
 CN 2H-Pyran-2,4(3H)-dione, 3-acetyl-6-methyl- (8CI, 9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 3-Acetyl-6-methyl-1-oxacyclohex-5-ene-2,4-dione  
 CN 3-Acetyl-6-methyl-2H-pyran-2,4(3H)-dione  
 CN 3-Acetyl-6-methyldihydropyrandione-2,4  
 CN 3-Acetyl-6-methylpyran-2,4(3H)-dione  
 CN 4-Hexenoic acid, 2-acetyl-5-hydroxy-3-oxo-, .delta.-lactone  
 CN Acetic acid, dehydro-  
 CN Biocide 470F  
 CN Dehydracetic acid  
 CN **Dehydroacetic acid**  
 CN DHAA  
 CN DHS  
 FS 3D CONCORD  
 DR 53488-80-5  
 MF C8 H8 O4  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB,  
 CHEMCATS,  
 CHEMLIST, CIN, CSCHM, DDFU, DETHERM\*, DRUGU, EMBASE, GMELIN\*, HODOC\*,  
 HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC,  
 PDLCOM\*, PIRA, PROMT, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, USAN,  
 USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

741 REFERENCES IN FILE CA (1962 TO DATE)  
 29 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 741 REFERENCES IN FILE CAPLUS (1962 TO DATE)  
 14 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS  
RN 69-72-7 REGISTRY  
CN Benzoic acid, 2-hydroxy- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

✓ CN Salicylic acid (6CI, 8CI)

OTHER NAMES:

CN 171

✓ CN 2-Carboxyphenol

✓ CN 2-Hydroxybenzenecarboxylic acid

✓ CN 2-Hydroxybenzoic acid

CN 311

CN 334

CN 337

CN 380

CN 51

CN Advanced Pain Relief Callus Removers

CN Advanced Pain Relief Corn Removers

CN Clear away Wart Remover

CN Compound W

CN Dr. Scholl's Callus Removers

CN Dr. Scholl's Corn Removers

CN Dr. Scholl's Wart Remover Kit

CN Duofil Wart Remover

CN Duoplant

CN Freezone

CN Ionil

CN Ionil Plus

CN K 537

CN K 557

CN o-Carboxyphenol

CN o-Hydroxybenzoic acid

CN Phenol-2-carboxylic acid

CN Psoriacid-S-Stift

CN Retarder W

CN Rutranex

CN Salicylic acid collodion

CN Salicylic Acid Soap

CN Saligel

CN Salonil

CN Stri-Dex

FS 3D CONCORD

DR 7681-06-3, 8052-31-1

MF C7 H6 O3

CI COM

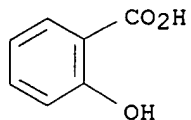
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*,  
BIOBUSINESS,

BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB,  
CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU,  
DETERM\*, DIOGENES, DIPPR\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2,  
ENCOMPAT, ENCOMPAT2, GMELIN\*, HODOC\*, HSDB\*, IFICDB, IFIPAT, IFIUDB,  
IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM\*, PIRA,  
PROMT, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN,  
USPAT2, USPATFULL, VETU, VTB

(\*File contains numerically searchable property data)

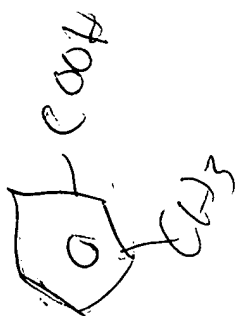
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

17732 REFERENCES IN FILE CA (1962 TO DATE)  
2268 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
17765 REFERENCES IN FILE CAPLUS (1962 TO DATE)  
7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)



L7 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1998:208792 CAPLUS

DOCUMENT NUMBER: 128:312937

TITLE: Topical preparations containing salicylic acid and cationic surfactants for treatment of acne

INVENTOR(S): Adachi, Kiyo; Hagino, Koji; Tomono, Shiro; Otaki, Reiko

PATENT ASSIGNEE(S): Lion Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.             | KIND  | DATE     | APPLICATION NO. | DATE     |
|------------------------|---|----------|-----------------|----------|
| JP 10087496            | A2  | 19980407 | JP 1996-263679  | 19960912 |
| PRIORITY APPLN. INFO.: |   |          | JP 1996-263679  | 19960912 |
| AB                     | The title prepns. are claimed. An aq. soln. contg. salicylic acid and benzalkonium chloride showed synergistic effect in removing of stratum corneum in rats. |          |                 |          |
| IT                     | 69-72-7D, Salicylic acid, mixts. contg. 121-54-0D, Benzethonium chloride, mixt. with <b>salicylic</b> acid  |          |                 |          |
| RL:                    | BAC (Biological activity or effector, except adverse); BSU  |          |                 |          |

(Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study);

USES

(Uses)

(topical prepns. contg. **salicylic** acid and cationic surfactants for treatment of acne)

L7 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1969:14383 CAPLUS

DOCUMENT NUMBER: 70:14383

TITLE: Interaction of salicylic acid with quaternary ammonium

compounds

AUTHOR(S): Wan, Lucy S. C.

CORPORATE SOURCE: Sch. Pharm., Univ. Singapore, Singapore

SOURCE: Journal of Pharmaceutical Sciences (1968), 57(11), 1903-6

CODEN: JPMSAE; ISSN: 0022-3549

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A marked increase in viscosity is produced in solns. of dodecyl, tetradecyl pyridinium Br, cetylpyridinium Cl, benzalkonium Cl, and benzethonium Cl contg. salicylic acid. The viscosity increases with acid concn. to a max. and then decreases. This viscosity effect is absent in quaternary ammonium compds. which are not surface active. Solns. of

alkyl pyridinium and alkyl trimethyl ammonium compds. in the presence of salicylic acid form non-Newtonian systems which are dilatant while the alkyl aryl dimethyl compds. contg. the same acid form Newtonian systems. The different rheological behavior is probably due to the no. of substituents present which are responsible for the surface activity of

the mol. and which are attached to the N atom. The amt. of salicylic acid required to produce max. viscosity is directly proportional to the concn. of the quaternary ammonium compd. which exhibits Newtonian flow.

IT 104-73-4 121-54-0 123-03-5 1155-74-4

RL: PRP (Properties)

(viscosity of, salicylic acid effect on)

(FILE 'HOME' ENTERED AT 12:16:04 ON 03 AUG 2003)

FILE 'REGISTRY' ENTERED AT 12:16:11 ON 03 AUG 2003

L1 2 S BENZETHONIUM CHLORIDE/CN OR METHYLBENZETHONIUM CHLORIDE/CN  
L2 1 S BENZETHONIUM CHLORIDE/CN  
L3 8028 S SALICYLIC OR SALICYLATE

FILE 'CAPLUS, USPATFULL' ENTERED AT 12:32:11 ON 03 AUG 2003

L4 96780 S SALICYLIC OR SALICYLATE  
L5 1570 S L2  
L6 180 S L4 AND L5  
L7 7 S L4 (P) L5

FILE 'REGISTRY' ENTERED AT 12:44:44 ON 03 AUG 2003

L8 1 S SALICYLIC ACID/CN  
L9 3 S DEHYDROACETIC ACID/CN

FILE 'CAPLUS, USPATFULL' ENTERED AT 13:04:26 ON 03 AUG 2003

L10 12052 S ACNE  
L11 1 S L9 (P) L10  
L12 6 S L9 AND L10  
L13 5 S L12 NOT L11

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